RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523/982Source: 10/523/982Date Processed by STIC: 10/523/982

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RAW SEQUENCE LISTING DATE: 02/13/2006
PATENT APPLICATION: US/10/523,982 TIME: 13:13:02

Input Set : A:\Sequence Listing 9-9-05 2005_0199A.txt

Output Set: N:\CRF4\02132006\J523982.raw

3 <110> APPLICANT: KAKIZUKA, Akira

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KAMEI, Yasutomi
        OHIZUMI, Hiroshi
 7 <120> TITLE OF INVENTION: A method of drug screening
 9 <130> FILE REFERENCE: 2005-0199A/WMC/00653
11 <140> CURRENT APPLICATION NUMBER: 10/523,982
12 <141> CURRENT FILING DATE: 2005-02-08
14 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/010163
15 <151> PRIOR FILING DATE: 2003-08-08
17 0150> PRIOR APPLICATION NUMBER: JP 2002-231999
18 <151> PRIOR FILING DATE: 2002-08-08
20 <160> NUMBER OF SEQ ID NOS: 2
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 3345
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (32)..(3076)
33 <400> SEQUENCE: 1
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38 gcg ctg ctg gat gaa gag ctc tcg tcc ttc ttc ctc aac tat ctc tct
39 Ala Leu Leu Asp Glu Glu Leu Ser Ser Phe Phe Leu Asn Tyr Leu Ser
                                15
42 gac acg cag ggt ggg gac tct gga gag gaa cag ctg tgt gct gac ttg
43 Asp Thr Gln Gly Gly Asp Ser Gly Glu Glu Gln Leu Cys Ala Asp Leu
46 cca gag ctt gac ctc tcc cag ctg gac gcc agt gac ttt gac tca gcc
                                                                     196
47 Pro Glu Leu Asp Leu Ser Gln Leu Asp Ala Ser Asp Phe Asp Ser Ala
50 acg tgc ttt ggg gag ctg cag tgg tgc ccg gag acc tca gag aca gag
51 Thr Cys Phe Gly Glu Leu Gln Trp Cys Pro Glu Thr Ser Glu Thr Glu
52
                    60
54 ccc age cag tac age ccc gat gac tcc gag ctc ttc cag att gac agt
                                                                     292
55 Pro Ser Gln Tyr Ser Pro Asp Asp Ser Glu Leu Phe Gln Ile Asp Ser
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58 gag aat gaa gct ctc ttg gct gcg ctt acg aag acc ctg gat gac atc
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59 Glu Asn Glu Ala Leu Leu Ala Ala Leu Thr Lys Thr Leu Asp Asp Ile
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62 ccc gaa gac gat gtg ggg ctg gcc ttc cca gaa ctg gat gaa ggc
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	PIO		Asp	Asp	Val	GIÀ		Ата	Ald	Pne	PIO		Leu	Asp	GIU	GIY		
64		105					110					115					426	
					tgc			_			_				_		436	
	_	Thr	Pro	ser	Cys		Pro	Ата	ser	Pro		Pro	Leu	Ser	Ата			
	120					125					130					135		
					ctg												484	
	Pro	Ser	Pro	Thr	Leu	Glu	Arg	Leu	Leu	Ser	Pro	Ala	Ser	Asp	Val	Asp		
72					140					145					150			
74	gag	ctt	tca	ctg	cta	cag	aag	ctc	ctc	ctg	gcc	aca	tcc	tcc	cca	aca	532	
75	Glu	Leu	Ser	Leu	Leu	Gln	Lys	Leu	Leu	Leu	Ala	Thr	Ser	Ser	Pro	Thr		
76				155					160					165				
78	gca	agc	tct	gac	gct	ctg	aag	gac	999	gcc	acc	tgg	tcc	cag	acc	agc	580	
79	Ala	Ser	Ser	Asp	Ala	Leu	Lys	Asp	Gly	Ala	Thr	Trp	Ser	Gln	Thr	Ser		
80			170					175					180					
82	ctc	agt	tcc	aga	agt	cag	cgg	cct	tgt	gtc	aag	gtg	gat	ggc	acc	cag	628	
					Ser											_		
84		185					190		-		-	195	-	-				
86	qat	aaq	aaq	acc	ccc	aca	nta	cqq	qct	caq	agc	caa	cct	tat	acq	gaa	676	
					Pro													
	200	4	-			205					210	3		- 1		215		
		cat	aaσ	cac	ctc		t.ca	at.a	cta	ccc		ccc	aga	ata	aaa		724	
					Leu												, 2 1	
92					220					225	C, D	110	*** 3		230			
	tac	tcc	cca	act	ccg	cac	cca	age	cct		ctc	ctc	tcc	222		asa	772	
	_				Pro		_	_									772	
96	CyD	DC1		235	110	*****	110	JCL	240	9	u	пси	DCI	245	Olu	OI u		
	gag	gag	gag		ggg	aaa	aat	tac		agg	cct	taa	ata		cca	acc	820	
		-		-	Gly		_	_					_			-	020	
100		OIU	250		Gry	Olu	пор	255		DCI	110	ırp	260		FIO	AIG		
					t cc	· cta	aca			, 200		. 200			n acri	gcc	868	
															-	Ala		
104		265		. woř	, ser	. Let	270		L	, 1111	. Alc	275		, voř	2 261	. AIG		
					, dac	rat				· ato	· at=			·	- 000	tac	916	
																J Tyr	916	
	3 280) FIC	GI	ı Git	285		. wr	, ATC	ı met	. vai		т пес	1 116	: MI	_		
																295	064	
																cca	964	
		. пт:	5 1111	. туг	_		PIC) GII	Arg	_		PIC) GII	1 Arc	•	Pro		
112					300					305					310		1010	
			_				. –	_	_							ccc	1012	
		Pro) 116			ı Ala	Cys	Ser			ı Ser	Arg	J GIT			1 Pro		
116				315					320					325				
																c cta	1060	
		J Sei			Pro	Pro	Lys			Trp	Thr	Glu			: Ile	e Leu		
120			330					335					340					
																tac	1108	
				ı Leı	ı Ala	Gln	Asp	Ile	Let	Cys	: Asp	Val	. Ser	Lys	Pro	Tyr		
124		345					350					355						
																ccc	1156	
12	7 Arg	, Lei	ı Ala	ılle	e Pro	Val	Tyr	Ala	Ser	Leu	Thr	Pro	Glr	ı Ser	Arg	J Pro		

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120	360					365					270					275	
		ccc	000	224	~ 2~		a 2 a	gcc	+ aa	aat	370	a2a	t at	~~~	a+ ~	375	1204
								Ala			_			_	_	_	1204
132	ALG	FIU	FIU	цуъ	380	SEI	GIII	мта	ser	385	Ala	птъ	ser	Ald		Ala	
	~ ~ ~	~~~	a+ a	202		a a t	~a+	+ ~ ~			200	200	~~~		390		1050
								tcc Ser									1252
136	GIU	GIU	vai	395	TTE	1111	Ala	Ser	400	гуу	ser	TILL	GIŞ		Arg	PIO	
	200	ata	aat		a+ ~	200	a+ ~	~~~						405			1200
130	Sor	Tou	7xa	Dro	Lou	ayy Ara	Tou	gag Glu	gra	aaa Ta	cgg	gat	gtt	aac	aag	CCL	1300
140	ser	ьeu	410	PIO	ьeu	Arg	Leu	415	val	ьуѕ	Arg	Asp		Asn	ьys	PIO	
	202	200		224	~~~	~~~	~~~		~~~	~~~	~~~	~~~	420				1240
								gat Asp									1348
144	1111	425	GIII	цуб	Arg	Giu	430	Asp	Gru	GIU	GIU	435	GIU	GIU	GIU	Giu	
	ma a		~ ==	~==	~ ==	222		gag	~~~	~~~	~~~		taa	~~~		226	1206
								Glu									1396
	440	Gru	GIU	GIU	Giu	цуS 445	GIU	GIU	Gru	GIU	450	GIU	пр	GIY	Arg	_	
		002	aat	aat	aaa	-	002	tgg	300	222		~~~	200	224	a+~	455	3444
								Trp									1444
1.52	Arg	FIU	Gry	Arg	460	шец	FIU	тър	1111	165	ьец	GI	arg	цуѕ	470	Asp	
	ear	7.77	ata	tac		ata	aaa	cgc	taa		2012	ata	22t	000		ata	1402
								Arg									1492
156	Der	Der	vai	475	110	Val	тд	AL 9	480	Arg	Arg	neu	ASII	485	Giu	пец	
	aat	ccc	taa		202	tta	act	gat		000	++=	cat	aat		000	+ 00	1540
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160	Gry	110	490	пец	1111	FIIC	1111	495	GIU	FIO	шеш	Gry	500	пеа	FIU	261	
	ata	tac		aat	aca	gag	acc	cac	220	cta	aaa	ma a		ata	aac	200	1588
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164	1100	505	шси	пор	1111	Olu	510	1113	ASII	пец	Giu	515	АЗР	пец	СТУ	Der	
	ctc		gac	agt	agt	саа		cgg	cad	ctc	ccc	-	aaa	tcc	cad	ato	1636
								Arg									1030
	520		p	552	501	525	017	5	0111		530	0111	O- y	501	01	535	
		acc	cta	gaa	agc		t.at.	gag	agt.	aaa		gga	gac	aca	gat		1684
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172					540		-2-			545	-1-	1	<u>F</u>		550		
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176	•			555					560					565	-1-		
178	atq	ctq	qcc	ttq	tca	caa	aqc	gac	tct	ctt	aac	aaq	aag		ttt	gag	1780
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180			570					575			2	2	580				
182	qaq	tcc	ctq	acq	ata	qaq	ctt	tgc	qqc	acq	qca	qqa	ctc	acq	cca	ccc	1828
								Cys									
184		585					590	-	4	·	-	595				-	
186	acc	aca	cct	cca	tac	aaq	cca	atg	qaq	qaq	qac	ccc	ttc	aaq	cca	gac	1876
								Met									
188					-	605					610			4 -	-	615	
190	acc	aaq	ctc	agc	cca	ggc	caa	gac	aca	qct		aqc	ctt	ccc	tcc		1924
								Asp									· - •
192		-			620	•		•		625				-	630		

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PATENT APPLICATION: US/10/523,982 TIME: 13:13:02

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195	Glu	Ala	Leu	${\tt Pro}$	Leu	Thr	Ala	Thr	Pro	Gly	Ala	Ser	His	Lys	Leu	Pro	•
196			•	635					640					645			
							agc										2020
	Lys	Arg		Pro	Glu	Arg	Ser		Leu	Leu	Ser	His	Leu	Gln	His	Ala	
200			650					655					660				
							cag										2068
	Thr		Gln	Pro	Val	Ser	Gln	Ala	Gly	Gln	Lys	_	Pro	Phe	Ser	Cys	
204		665					670					675					
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		Pne	GIY	Asp	HIS	_	Tyr	Cys	Gin	vaı		Arg	Pro	GIu	Ala		
208					~+~	685			.		690					695	2164
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211	ьeu	GIII	Arg	гуѕ	700	neu	Arg	ser	тр	705	PIO	тте	GIY	vaı	710	ьeu	
	naa	aac	tta	acc		cac	ggt	acc	cat		CC2	200	~ 22	202		acc	2212
							Gly										2212
216	914	1105	D Cu	715	U	0111	Ory	mu	720	шси	110	1111	Giu	725	цуз	AIG	
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							Gln										230,5.
220		_	730			•	-	735	- 2				740	-1 -	<u>F</u> -		
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224		745					750		_			755		-			
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228						765					770					775	
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232					780					785					790		
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236	GIU	Ser	ser	795	Leu	ьeu	Glu	GIU	800	Giu	GIU	GIU	GIU		GIY	GIA	
	gaa	aaa	cac		C a a	aas	gag	a a c		aaa	ata	200	cat	805	taa	tat	2500
							Glu				_	_			-		2500
240	O.L.	O.Lu	810	1100	014	Q ₁	014	815	DCI	O ₁	vai	JCI	820	110	Cys	Der	
	qat	cac		ccc	tac	cag	agc		ccc	agt	aaσ	acc		caa	cag	ctc	2548
							Ser										2310
244		825	- 2		- 4 -		830				-1 -	835		5	-		
246	tgc		cga	agc	cgc	tcc	agt	tcc	ggc	tcc	tcq		tqc	aqc	tcc	tgg	2596
							Ser										
248						845					850		_			855	
							aac										2644
251	Ser	Pro	Ala	Thr	Arg	Lys	Asn	Phe	Arg	Arg	Glu	Ser	Arg	Gly	Pro	Cys	
252					860					865					870		
							gtc										2692
	Ser	Asp	Gly		Pro	Ser	Val	Arg		Ala	Arg	Lys	Arg	_	Glu	Lys	
256				875					880					885			
258	gcc	atc	ggt	gaa	ggc	cgt	gtg	gta	tac	att	cga	aat	ctc	tcc	agt	gac	2740

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	259 260	Ala	Ile	Gly 890	Glu	Gly	Arg	Val	Val 895	Tyr	Ile	Arg	Asn	Leu 900	Ser	Ser	Asp	
	262	atg	agc	tct	cgg	gaa	cta	aag	aag	cgc	ttt	gag	gtg	ttc	ggt	gag	att	2788
									Lys									
	264		905		3			910	-1-	5			915		1			
		~+~		+~~		~												2026
									aga									2836
	267	Val	Glu	Cys	Gln	Val	Leu	Thr	Arg	Ser	Lys	Arg	Gly	Gln	Lys	His	Gly	
	268	920					925					930					935	
	270	ttt	atc	acc	ttc	cgg	tgt	tca	gag	cac	gct	gcc	ctg	tcc	gtg	agg	aac	2884
									Glu									
	272					940	4				945					950		
		999	acc	300	cta		224	000	aat	~~~		+ a a	++0	a aa	ata		t a t	2932
																		2932
		GIY	Ата	Thr		Arg	ьys	Arg	Asn		Pro	ser	Pne	HIS		ser	Tyr	
	276				955					960					965			
									tgg									2980
	279	Gly	Gly	Leu	Arg	His	Phe	Arg	Trp	Pro	Arg	Tyr	Thr	Asp	Tyr	Asp	Pro	
	280			970					975					980				
	282	aca	tct	qaq	qaq	tcc	ctt	ccc	tca	tct	qqq	aaa	·agc	aaq	tac	qaa	qcc	3028
									Ser									.,
	284		985					990			1		995	, _				
		ata.		+++	C a C	200	tta		aaa	~~~	000	C 2 C		200	c+ c	ast	+~=	3076
																	Lya	3076
			_	Pne	Asp			теп	Lys	Gru			GIII	ser	ьeu			
W>							L005					1010					L015	
																	atgtt	
	292	tac	3ttt1	ca a	aaqaa	aaaga	ag ta	atato	agaa	a aaa	agago	cgag	cgad	rcgac	aca a	addaa	agcgag	3196
			-		_	_	_	-	_			~ ~		, , ,	,,	-5-5-	-3-3-3	3130
																	ttaaa	
	294	tgag	gcgt	gag a	agato	cacac	a g	gagag	gagaa	a aga	actt	gaat	ctg	ctgto	gt (tcct	ttaaa	3256
	294 296	tgag aaaa	gcgte aaaa	gag a	agato aaaaa	cacao acto	ca go	gagag egge	gagaa caagt	a aga	actt	gaat	ctg	ctgto	gt (tcct		3256 3316
	294 296 298	tgag aaaa atc	gcgtg aaaa ccggg	gag a aaa a gtg g	agato aaaaa gcato	cacao aacto cccto	ca go	gagag egge	gagaa caagt	a aga	actt	gaat	ctg	ctgto	gt (tcct	ttaaa	3256
	294 296 298 301	tgag aaaa atco	gcgtg aaaaa ccggg 0> S1	gag a aaa a gtg g EQ II	agato aaaaa gcato D NO:	cacad aactd ccctg : 2	ca go	gagag egge	gagaa caagt	a aga	actt	gaat	ctg	ctgto	gt (tcct	ttaaa	3256 3316
	294 296 298 301 302	tgag aaaa atco <210 <211	gcgtg aaaaa ccggg 0> S1 1> L1	gag a aaa a gtg q EQ II ENGTI	agato aaaaa gcato D NO: H: 10	cacad aactd ccctg : 2	ca go	gagag egge	gagaa caagt	a aga	actt	gaat	ctg	ctgto	gt (tcct	ttaaa	3256 3316
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	294 296 298 301 302 303 304 306 307 308	tgag aaaa atcc <210 <211 <211 <400 Met	gcgte aaaaa ccgge D> SI D> T 3> OI D> SI Ala	gag a aaa a gtg o EQ II ENGTI YPE: RGANI EQUEI Gly	agato aaaaa gcato D NO: H: 10 PRT ISM: NCE: Asn	eacac aactc cccts : 2)14 Homo 2 Asp 5	ca go cg ac gt ga cys	gagag gggc accco piens	gagaa caagt ctcc	a aga	Leu 10	gaat ccct Asp	ctgo	etgto gtgag	ggt (Ser	ttaaa ttgtg Ser	3256 3316
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VERIFICATION SUMMARY

DATE: 02/13/2006

PATENT APPLICATION: US/10/523,982

TIME: 13:13:03

Input Set : A:\Sequence Listing 9-9-05 2005_0199A.txt
Output Set: N:\CRF4\02132006\J523982.raw

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